



Attorney's Docket No. 813-001.028-1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number: 6,837,636

Issued: January 4, 2005

Name of Patentee: Sawyer et al.

Title of Invention: IMAGER FEATURING SERVICE STATION ASSEMBLY FOR SERVICING IMAGER
PRINT HEADS

Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
JUL 06 2005
of Correction

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR PTO MISTAKE (37 CFR 1.322(a))

1. Attached in duplicate is Form PTO-1050 with at least one copy being suitable for printing.

NOTE: Form PTO-1050, using the column and line number in the printed patent, should be used exclusively regardless of the length or complexity of the subject matter. MPEP § 1485.

NOTE: The patent grant should be retained by the patentee. The PTO does not attach the certificate of correction to the patentee's copy of the patent. The patent grant will be returned to the patentee if submitted. MPEP § 1485.

2. The exact page and line number where the errors are shown correctly in the application file are:

NOTE: This information should be identified in this request, however, on Form PTO-1050, only the column and line number in the printed patent should be used. MPEP § 1485.

1. Amendment filed July 27, 2004, page 3
2. Amendment filed July 27, 2004, page 7
3. Amendment filed July 27, 2004, page 7
4. Amendment filed July 27, 2004, page 8
5. Amendment filed July 27, 2004, page 8
6. Amendment filed July 27, 2004

CERTIFICATE OF MAILING/TRANSMISSION UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

☒ deposited with the United States Postal Service with sufficient postage as first-class mail, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22131-1450.

Date: 6/28/2005

FACSIMILE

☐ transmitted by facsimile to the U.S. Patent and Trademark Office.

Signature

Kelly Puglio
(type or print name of person certifying)

JUL - 7 2005

3. Please send the Certificate to:

Name: William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
Address: Bradford Green, Building Five, 755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

(Complete, if applicable)

Signature(s) of patentee(s)

or

(type or print name of assignee)

Signature of assignee or person authorized to
sign on behalf of assignee

☐ Assignment recorded on



Date _____

William J. Barber
(type or print name of authorized person signing)

Reel _____

Frame _____

Attorney for Patentee
(Title of authorized person signing)

☐ Recordal of assignment attached

☐ Attached is a "CERTIFICATE UNDER 37 CFR 3.73(b)" establishing the right of the assignee to take action in this case.

NOTE: "A certificate of correction, under 35 U.S.C. 254, may be issued at the request of the patentee or his assignee." 37 CFR 1.322(a).
The certificate of correction can be signed by the attorney of record who acts on behalf of the inventor(s) or assignee(s).

**** ALSO ENCLOSED IS A LETTER
ACCOMPANYING CERTIFICATE OF
CORRECTION.**

JUL - 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636

Page 1 of 4

APPLICATION NO. : 10/082,781

ISSUE DATE: : January 4, 2005

INVENTOR(S) : Sawyer et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In column 11, line 61, claim 3, line 8 "color" should be --motor--.

In column 12, line 64, claim 14, line 12 "remaining" should be --remains--.

In column 13, line 18, claim 15, line 8 after "imager" --having-- should be inserted.

In column 13, line 12, claim 15, line 12 "remaining" should be --remains--.

In column 14, line 5, claim 16, line 12 "remaining" should be --remains--.

In column 14, after claim 19, claims 47-55 should be inserted as follows:

47. An imager for arranging directly over a production path, comprising:

a cartridge assembly having a print cartridge with a print head that moves only on an axis perpendicular to the plane of the production path for allowing the print head to be purged, cleaned, parked, or a combination thereof, while the print head remains directly over the production path; and

a service station assembly having a waste ink receptacle that horizontally moves in relation to an axis parallel to the plane of the production path for purging, cleaning or parking the print head, or a combination thereof, while the print head remains directly over the production path.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

F001 - 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636
APPLICATION NO. : 10/082,781
ISSUE DATE: : January 4, 2005
INVENTOR(S) : Sawyer et al.

Page 2 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

48. An imager for arranging directly over a production path, comprising:
a cartridge assembly having a print cartridge with a print head that vertically moves only on an axis perpendicular to the plane of the production path for allowing the print head to be purged, cleaned, parked, or a combination thereof, while the print head remains directly over the production path; and
a service station assembly having a waste ink receptacle that horizontally moves in relation to an axis parallel to the plane of the production path for purging, cleaning or parking the print head, or a combination thereof, while the print head remains directly over the production path, the waste ink receptacle being a snap-in disposable assembly consisting of a reservoir for waste ink, soft rubber capping seals and soft rubber pen wipers.
49. An imager according to claim 48, wherein the reservoir contains porous foam for absorption and dispersion of waste ink.
50. An imager according to claim 47, wherein the waste ink receptacle assembly slides within the service station assembly by way of software commanded motors, the service station assembly performing functions of pen wiping and cleaning, proper nozzle firing verification and capping of pens when not in use.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL - 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636
APPLICATION NO. : 10/082,781
ISSUE DATE: : January 4, 2005
INVENTOR(S) : Sawyer et al.

Page 3 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

51. An imager for arranging directly over a production path, comprising:

a cartridge assembly having a print cartridge with a print head that vertically moves only on an axis perpendicular to the plane of the production path for allowing the print head to be purged, cleaned, parked, or a combination thereof, while the print head remains directly over the production path, the cartridge assembly having a cartridge lift motor for lifting the cartridge assembly a precise distance at pre-determined intervals or upon command in relation to the service station assembly ; and

a service station assembly having a waste ink receptacle that horizontally moves in relation to an axis parallel to the plane of the production path for purging, cleaning or parking the print head, or a combination thereof, while the print head remains directly over the production path, the waste ink receptacle assembly sliding within the service station assembly by way of software commanded motors, the service station assembly performing functions of pen wiping and cleaning, proper nozzle firing verification and capping of pens when not in use.

52. An imager according to claim 51, wherein the cartridge assembly includes a wiper/ink receptacle driver motor for driving the waste ink receptacle under a nose of the print head thereby wiping one or more pen nozzles to remove excess ink residue.

53. An imager according to claim 52, wherein the wiper/ink receptacle driver motor retracts the waste ink receptacle to allow resumed printing, or the cartridge assembly lift motor lowers the cartridge assembly to allow the soft rubber capping seals to cap pens to prevent drying of the one or more pen nozzles until next use.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL - 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636

Page 4 of 4

APPLICATION NO. : 10/082,781

ISSUE DATE: : January 4, 2005

INVENTOR(S) : Sawyer et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

54. An imager according to claim 1, **characterized in that** the production path has a conveyor belt having products to be printed moving thereon and underneath the print head.

55. An imager according to claim 1, **characterized in that** the production path is a continuous web to be printed moving underneath the print head.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL - 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636
APPLICATION NO. : 10/082,781
ISSUE DATE: : January 4, 2005
INVENTOR(S) : Sawyer et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In column 11, line 61, claim 3, line 8 "color" should be --motor--.

In column 12, line 64, claim 14, line 12 "remaining" should be --remains--.

In column 13, line 18, claim 15, line 8 after "imager" --having-- should be inserted.

In column 13, line 12, claim 15, line 12 "remaining" should be --remains--.

In column 14, line 5, claim 16, line 12 "remaining" should be --remains--.

In column 14, after claim 19, claims 47-55 should be inserted as follows:

47. An imager for arranging directly over a production path, comprising:

a cartridge assembly having a print cartridge with a print head that moves only on an axis perpendicular to the plane of the production path for allowing the print head to be purged, cleaned, parked, or a combination thereof, while the print head remains directly over the production path; and

a service station assembly having a waste ink receptacle that horizontally moves in relation to an axis parallel to the plane of the production path for purging, cleaning or parking the print head, or a combination thereof, while the print head remains directly over the production path.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL - 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636
APPLICATION NO. : 10/082,781
ISSUE DATE: : January 4, 2005
INVENTOR(S) : Sawyer et al.

Page 2 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

48. An imager for arranging directly over a production path, comprising:
a cartridge assembly having a print cartridge with a print head that vertically moves only on an axis perpendicular to the plane of the production path for allowing the print head to be purged, cleaned, parked, or a combination thereof, while the print head remains directly over the production path; and
a service station assembly having a waste ink receptacle that horizontally moves in relation to an axis parallel to the plane of the production path for purging, cleaning or parking the print head, or a combination thereof, while the print head remains directly over the production path, the waste ink receptacle being a snap-in disposable assembly consisting of a reservoir for waste ink, soft rubber capping seals and soft rubber pen wipers.
49. An imager according to claim 48, wherein the reservoir contains porous foam for absorption and dispersion of waste ink.
50. An imager according to claim 47, wherein the waste ink receptacle assembly slides within the service station assembly by way of software commanded motors, the service station assembly performing functions of pen wiping and cleaning, proper nozzle firing verification and capping of pens when not in use.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636
APPLICATION NO. : 10/082,781
ISSUE DATE: : January 4, 2005
INVENTOR(S) : Sawyer et al.

Page 3 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

51. An imager for arranging directly over a production path, comprising:

a cartridge assembly having a print cartridge with a print head that vertically moves only on an axis perpendicular to the plane of the production path for allowing the print head to be purged, cleaned, parked, or a combination thereof, while the print head remains directly over the production path, the cartridge assembly having a cartridge lift motor for lifting the cartridge assembly a precise distance at pre-determined intervals or upon command in relation to the service station assembly ; and

a service station assembly having a waste ink receptacle that horizontally moves in relation to an axis parallel to the plane of the production path for purging, cleaning or parking the print head, or a combination thereof, while the print head remains directly over the production path, the waste ink receptacle assembly sliding within the service station assembly by way of software commanded motors, the service station assembly performing functions of pen wiping and cleaning, proper nozzle firing verification and capping of pens when not in use.

52. An imager according to claim 51, wherein the cartridge assembly includes a wiper/ink receptacle driver motor for driving the waste ink receptacle under a nose of the print head thereby wiping one or more pen nozzles to remove excess ink residue.

53. An imager according to claim 52, wherein the wiper/ink receptacle driver motor retracts the waste ink receptacle to allow resumed printing, or the cartridge assembly lift motor lowers the cartridge assembly to allow the soft rubber capping seals to cap pens to prevent drying of the one or more pen nozzles until next use.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL - 7 2005

JUL - 7 2005

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,837,636
APPLICATION NO. : 10/082,781
ISSUE DATE: : January 4, 2005
INVENTOR(S) : Sawyer et al.

Page 4 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

54. An imager according to claim 1, **characterized in that** the production path has a conveyor belt having products to be printed moving thereon and underneath the print head.

55. An imager according to claim 1, **characterized in that** the production path is a continuous web to be printed moving underneath the print head.

MAILING ADDRESS OF SENDER:

DOCKET # 813-001.028-1

PATENT NO. 6,837,636

William J. Barber
Ware, Fressola, Van Der Sluys & Adolphson LLP
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL - 7 2005



PATENT
813-001.028-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: George M. Sawyer et al.

Patent No.: 6,837,636

Issued January 4, 2005

For: IMAGER FEATURING SERVICE STATION ASSEMBLY WITH
INTERFACE BOARD AND CARTRIDGE ASSEMBLY WITH
CUSTOMIZED RASTERIZER AND PEN DRIVER BOARDS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

LETTER ACCOMPANYING CERTIFICATE OF CORRECTION

Sir:

This is a letter accompanying a certificate of correction.

Upon proofreading the aforementioned patent, it was noticed by the undersigned that claims 47-55 were omitted from the same.

The undersigned contacted the Patent Office to discuss the same and spoke to A. Hirshfeld ((571) 272-2168), who is the Supervisor of Examiner Nolan, who has left the employment of the Patent Office, and also spoke to Examiner Cho, who was assigned by Examiner Hirshfeld to assist the undersigned on this matter.

It was explained that in an amendment mailed July 27, 2004 claims 1-19 and 47-55 were placed in condition for allowance consistent with an indication of allowability of claims 3-6, 8-19, 48-49 and 51-53 on page 4 of an Office Action mailed January 28, 2005. There were no outstanding issues in relation to claims 1-19 and 47-55 on the record.

The Patent Office incorrectly and inadvertently issued a Notice of Allowability only indicating that claims 1-19 were

allowed.

The undersigned was instructed by Examiner Cho, who consulted with Examiner Hirshfeld, to file a Certificate of Correction to correct this matter.

The undersigned would like to thank Examiners Hirshfeld and Cho for the courtesy and cooperation extended on the phone to rectify this matter.

Respectfully submitted,



William J. Barber
Attorney for the Applicants
Registration No. 32,720

/dap
June 28, 2005
WARE, FRESSOLA, VAN DER SLUYS
& ADOLPHSON LLP
Customer No. 004955
Bradford Green, Building Five
755 Main Street, P.O. Box 224
Monroe, Connecticut 06468
Phone: (203) 261-1234